



Substitute Specification (clean version)

Technical Field

5 The present invention relates to a liquid electrophotographic printer and, more particularly, to an electrostatic transfer type liquid electrophotographic printer adopting a photoreceptor web as a photoreceptor medium.

Background of the Invention

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Electrophotographic printers such as laser printers output a desired image by forming a latent electrostatic image on a photoreceptor medium such as a photoreceptor drum or electroreceptor web, and developing the latent electrostatic image with a predetermined color toner. Electrophotographic printers are classified into a dry type or liquid type according to the toner used. For the liquid type printer, which uses an ink containing liquid carrier and solid toner in a predetermined ratio, it is relatively easy to implement a color image with excellent print quality, compared with the dry type printer which uses solid toner. Electrophotographic printers are also generally classified into an adhesive transfer type and electrostatic transfer type according to the toner image transfer manner. To the adhesive transfer type, after drying a toner image, a transfer roller hot presses the dried toner image such that the image is transferred to a printer paper. The electrostatic transfer type printer transfers a toner image to a print paper by electrostatic forces.

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30 Figure 1 shows an example of a conventional electrostatic transfer type liquid electrophotographic printer, which adopts photoreceptor drums 10a, 10b, 10c and 10d as photoreceptor media. As shown in Figure 1, this printer has a plurality of image forming units 1a, 1b, 1c and 1d for developing and transferring a predetermined color image to a print paper P. For a color printer, the four image forming units 1a, 1b, 1c and 1d for a color image development and transfer are arranged in a line in the direction of transferring the print paper P such that toner images are sequentially developed into four colors, yellow (Y), magenta (M), cyan (C), and black (K) to form a multi-color image. Reference numeral 2 denotes a feed belt 2 for feeding the print paper P.